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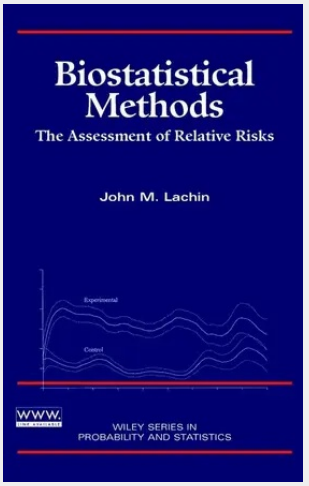
Biostatistical Methods

The Assessment of Relative Risks



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Comprehensive coverage of classical and modern methods of biostatistics Biostatistical Methods focuses on the assessment of risks and relative risks on the basis of clinical investigations. It develops basic concepts and derives biostatistical methods through both the application of classical mathematical statistical tools and more modern likelihood-based theories. The first half of the book presents methods for the analysis of single and multiple 2x2 tables for cross-sectional, prospective, and retrospective (case-control) sampling, with and without matching using fixed and two-stage random effects models. The text then moves on to present a more modern likelihood- or model-based approach, which includes unconditional and conditional logistic regression; the analysis of count data and the Poisson regression model; and the analysis of event time data, including the proportional hazards and multiplicative intensity models. The book contains a technical appendix that presents the core mathematical statistical theory used for the development of classical and modern statistical methods. Biostatistical Methods: The Assessment of Relative Risks: * Presents modern biostatistical methods that are generalizations of the classical methods discussed * Emphasizes derivations, not just cookbook methods * Provides copious reference citations for further reading * Includes extensive problem sets * Employs case studies to illustrate application of methods * Illustrates all methods using the Statistical Analysis System(r) (SAS) Supplemented with numerous graphs, charts, and tables as well as a Web site for larger data sets and exercises, Biostatistical Methods: The Assessment of Relative Risks is an excellent guide for graduate-level students in biostatistics and an invaluable reference for biostatisticians, applied statisticians, and epidemiologists.

Dieser Band hebt sich deutlich von anderen Lehrbüchern der Statistik ab: Biostatistische Methoden werden sowohl mit Hilfe klassischer, mathematischer Hilfsmittel als auch anhand moderner, wahrscheinlichkeitsbasierter Theorie abgeleitet, wobei stets ein Bezug zur klinischen Praxis hergestellt wird. Dabei entstand mehr als ein "Kochbuch" für den Biostatistiker! Ausdrücklich liegt ein Schwerpunkt auf mathematisch sauberen Herleitungen. Mit vielen Fallstudien zur ausführlichen Diskussion wichtiger Konzepte. (05/00)

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